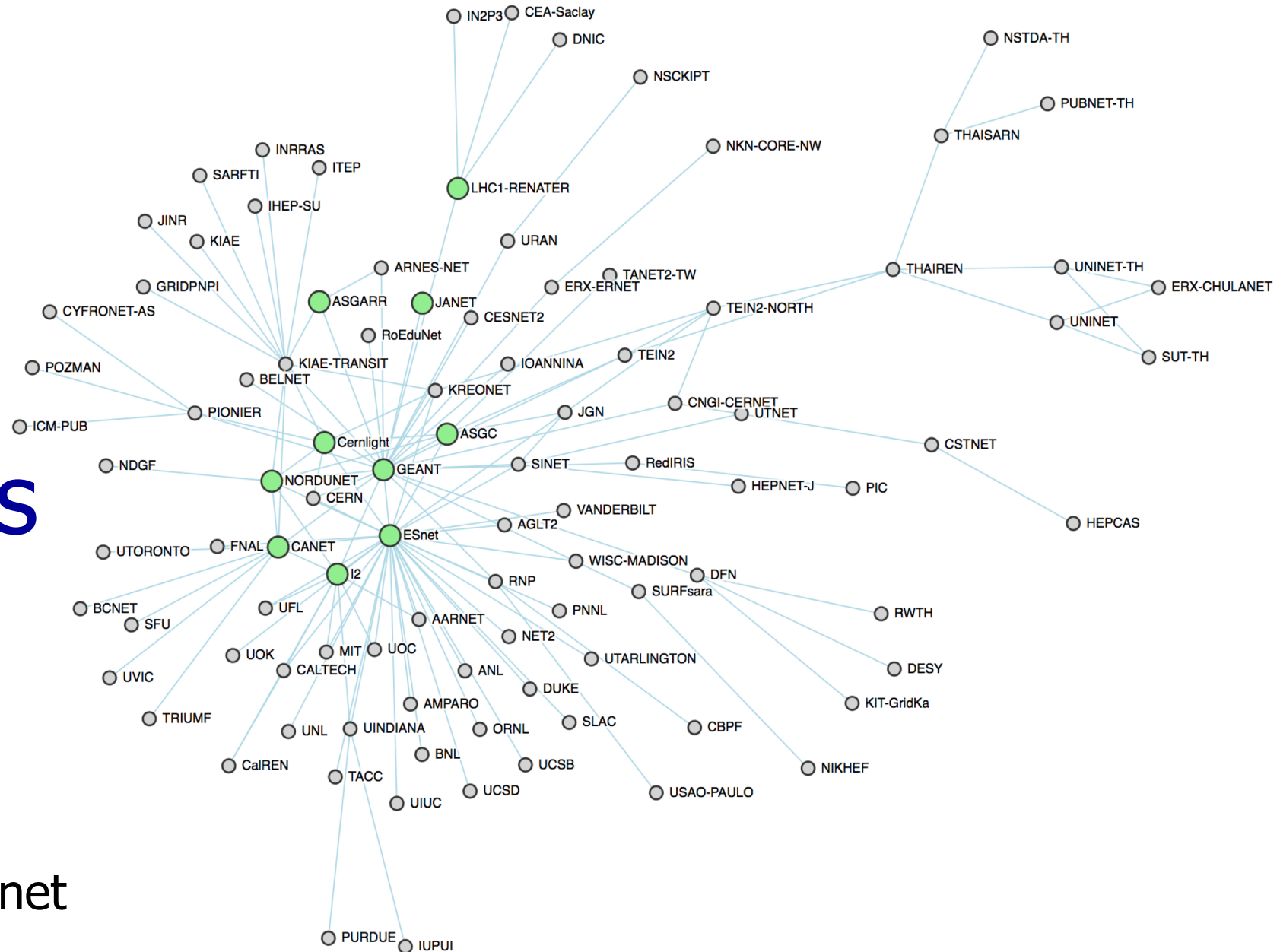


## LHCONE routing tables



LHCOPN-LHCONE meeting  
Fermilab 30 Oct 2018

[bergroth@nordu.net](mailto:bergroth@nordu.net)

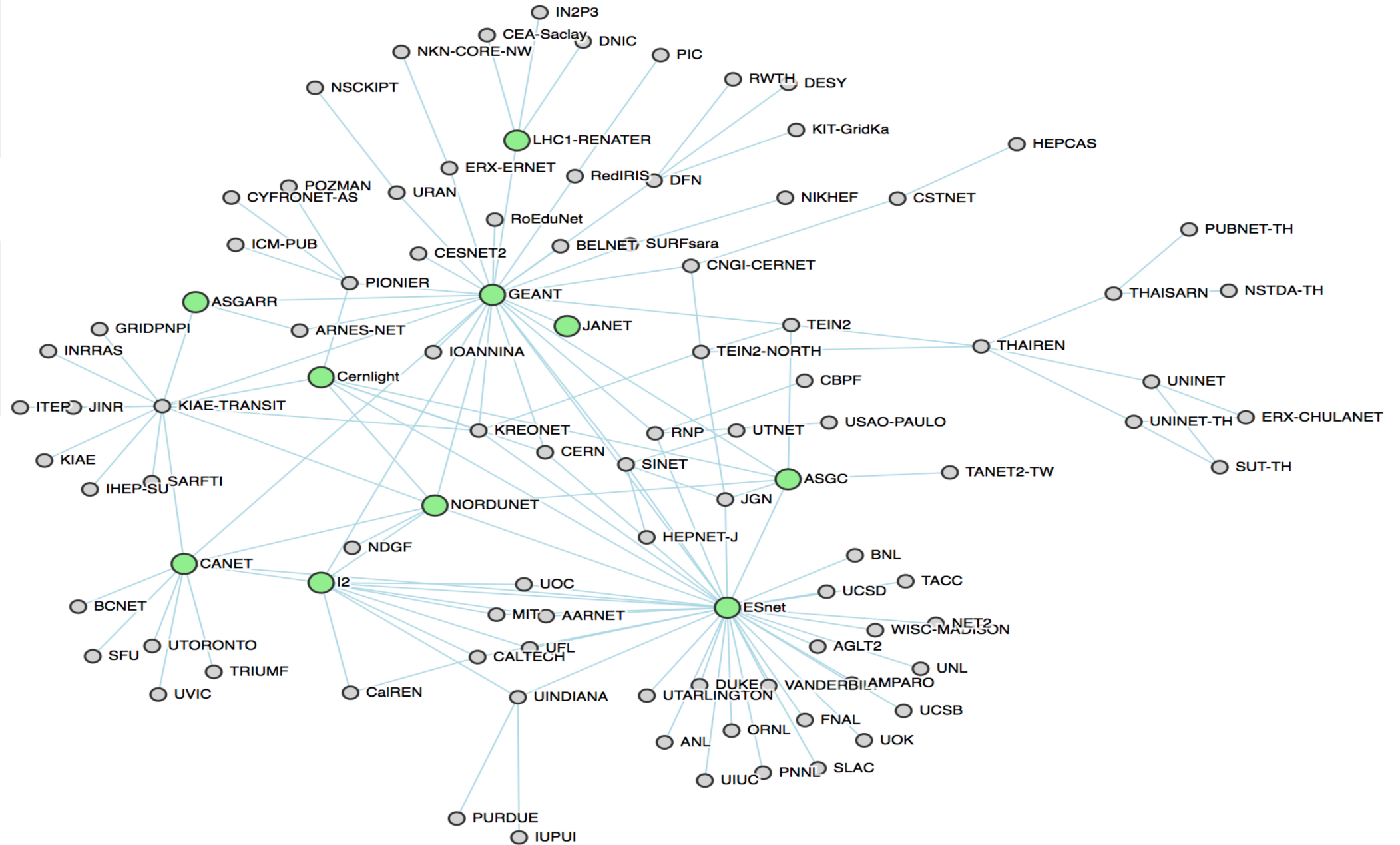
# NORDUnet LH Cone Routing tables dumps

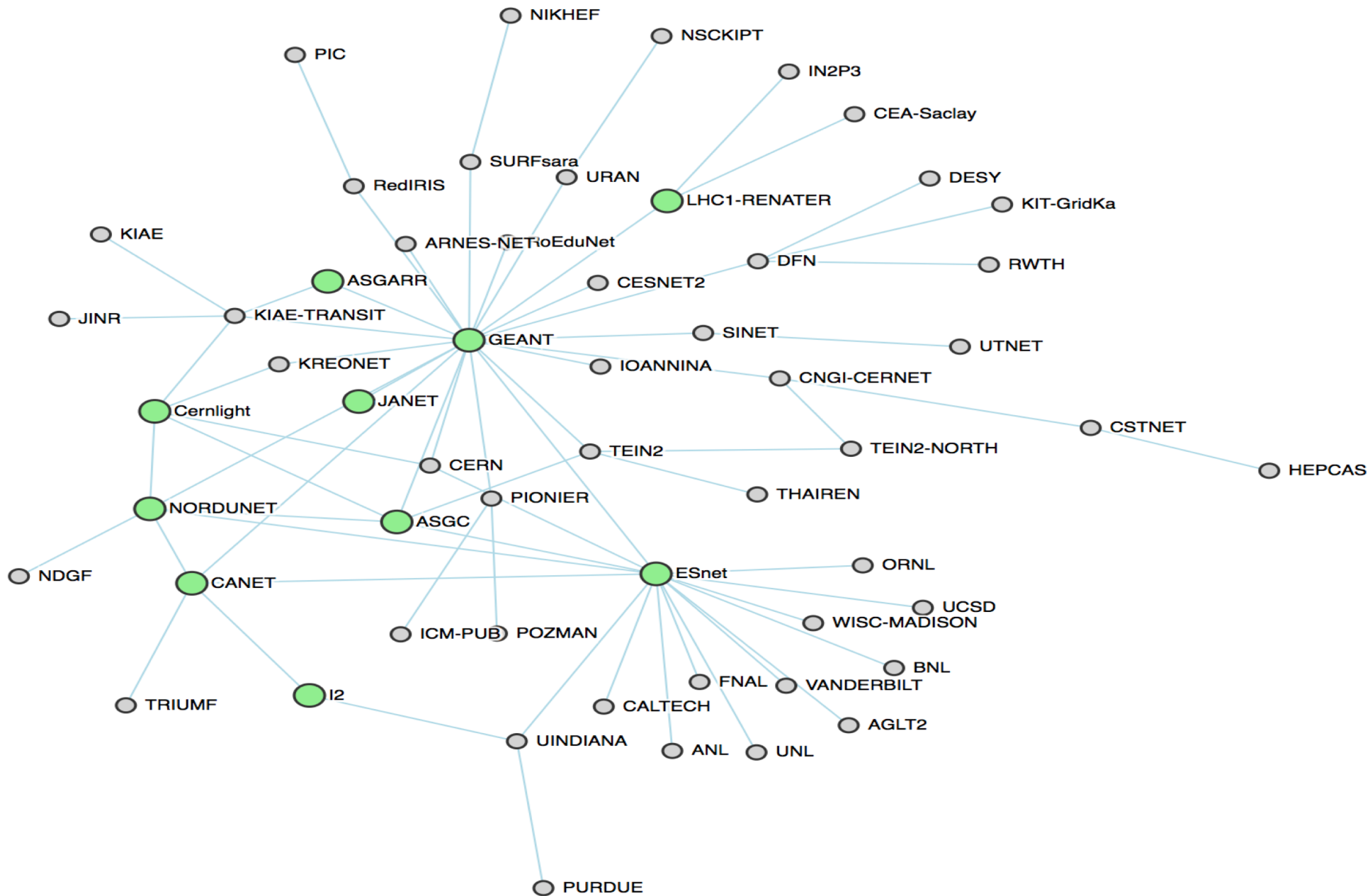
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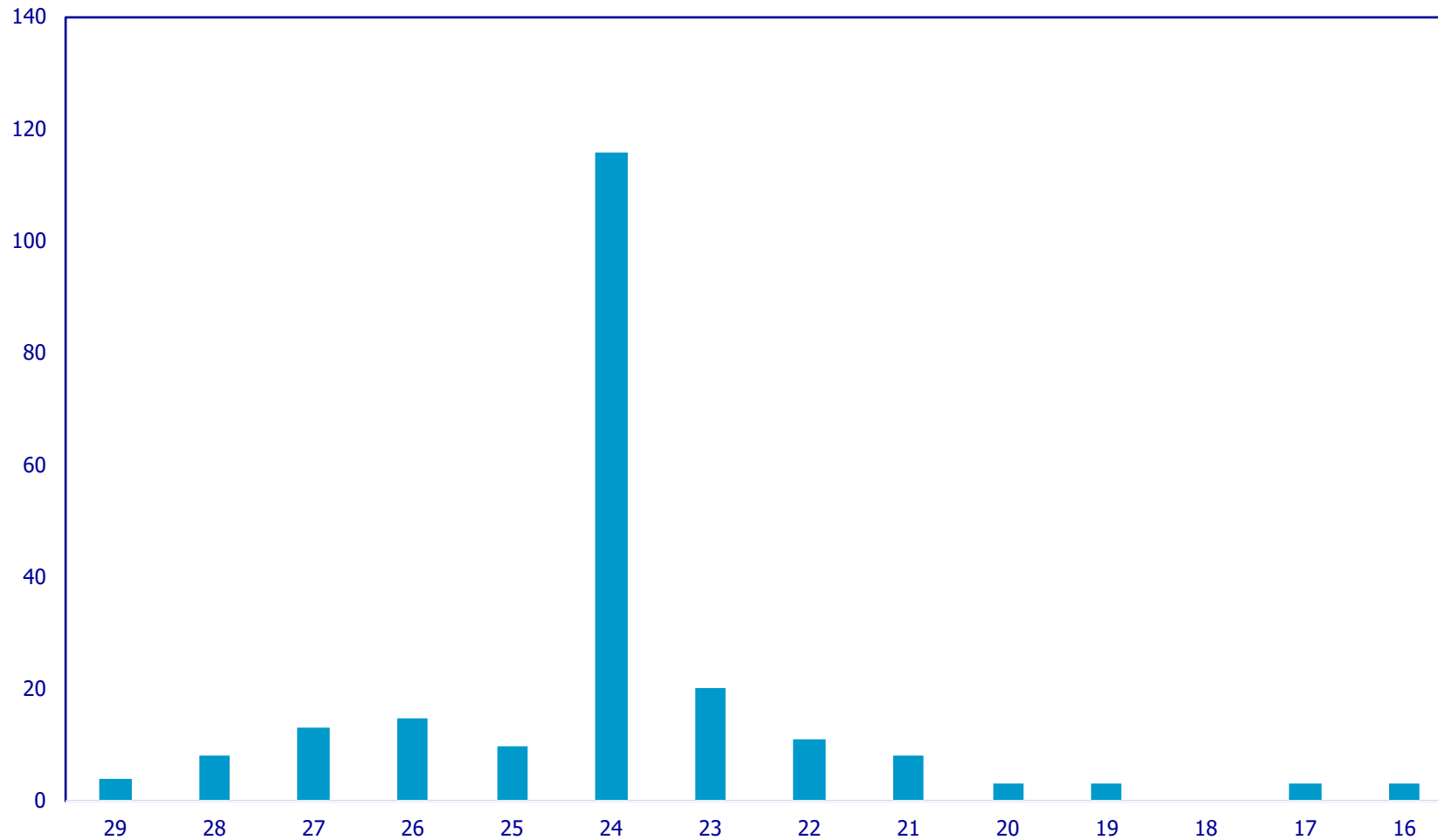
Network	ASn	Number of Connected ASn	Total ASN 99 <sub>(no privates)</sub> Peering ASN
ASGC	24167	7	20965, 293, 17934, 2603, 24490, 7539, 20641
Canarie	6509	9	20965, 11537, 57484, 2603, 36391, 239, 271, 11105, 16462
Cernlight	20641	7	17579, 293, 57484, 2603, 8501, 24167, 513
Garr	137	10	20965, 57484, 64714, 2107, 65055, 64515, 65281, 64589, 64520, 64612
Geant	20965	26	680, 293, 11537, 2907, 8501, 24167, 12687, 137, 2852, 57484, 2107, 786, 2614, 23911, 2091, 24490, 6509, 766, 1916, 8581, 513, 1162, 2697, 17579, 2611, 2603
Janet	786	2	20965, (65501)
Internet2	11537	11	20965, 6356, 7575, 2603, 293, 160, 32361, 2153, 6509, 19782, 3
Nordunet	2603	8	20965, 293, 57484, 24167, 6509, 20641, 11537, 39590
Renater	2091	9	20965, 777, 789, 65073, 65109, 65298, 65115, 65105, 65078
Esnet	293	35	20965, 6356, 2907, 7575, 2603, 17934, 24167, 229, 3671, 18515, 6509, 59, 32093, 7896, 38, 131, 7212, 3152, 25776, 160, 1916, 3428, 32361, 683, 43, 513, 11537, 13371, 19782, 50, 17579, 111, 1251, 3, 26397

Collected Sep 2018



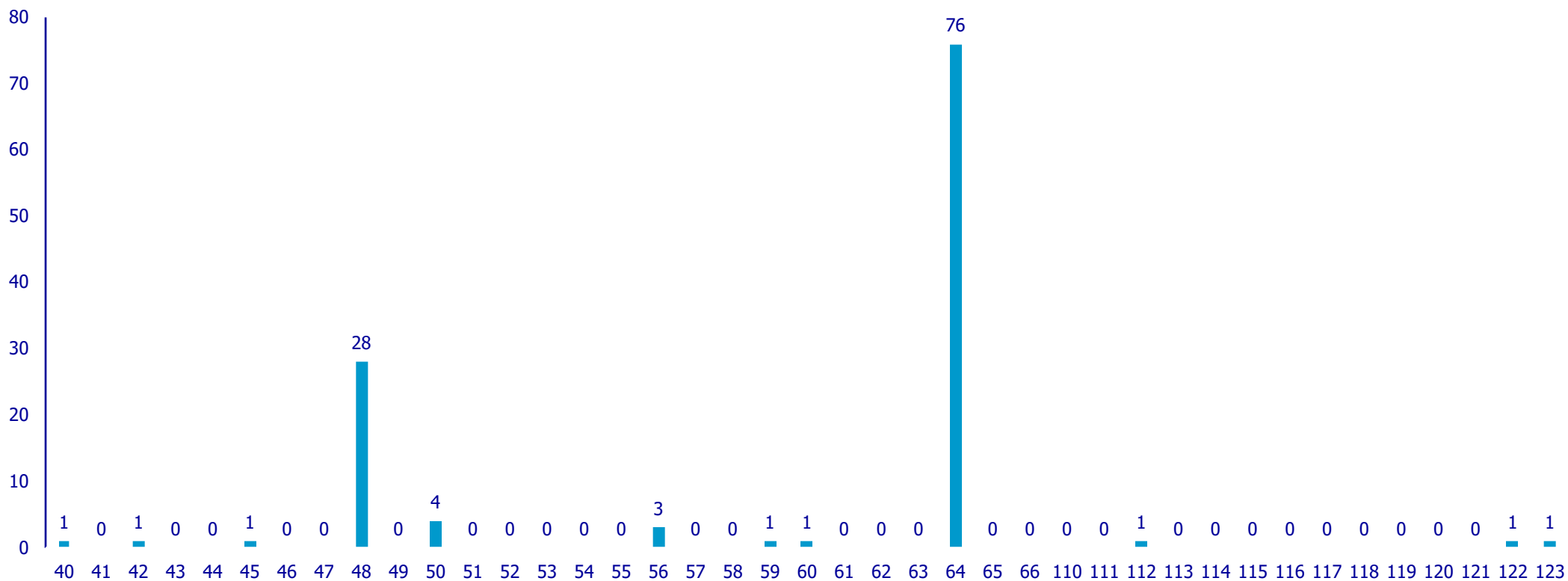






Mask	Count	
16-32	388	
16-29	218	~6 /16 (402144)





Mask	Count	
40-128	201	43/126, 21/127, 18/128
40-125	119	



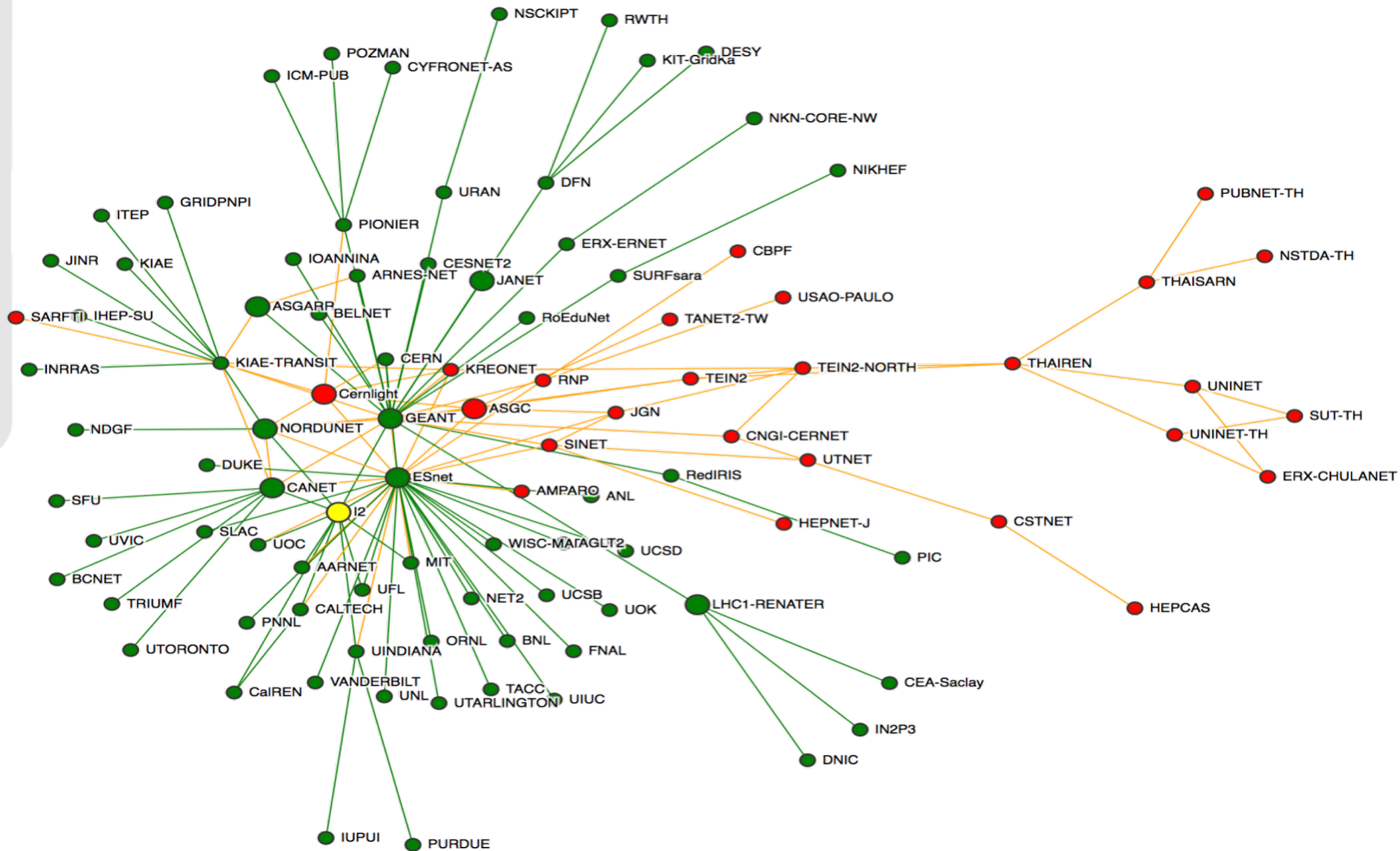
Asn	Name	Descr
AS2416	ASGCNet	Academia Sinica Grid Computing Center
AS2715	CBPF	
AS7497	CSTNET-AS-AP	Chinese Academy of Science
AS3839	ERX-CHULANET	Chulalongkorn University
AS3460	ERX-HEPCAS-AS	Institute of High Energy Physics
AS2505	HEPNET-J	High Energy Physics network in Japan
AS17934	JGN	
AS17579	KREONET2-AS-KR	KISTI
AS38296	NSTDA-TH-AS-AP	National Science and Technology Development Agency
AS7588	PUBNET-TH-AS	Thailand Public backbone Network
AS52146	SARFTI-AS	
AS2907	SINET	
AS2907	SINET-AS	National Institute of Informatics
AS55545	SUT-AS-AP	Suranaree University of Technology
AS24475	THAIREN-TRANSIT-AS-AP	ThaiREN,Thailand
AS3836	THAISARN-TH-AS-AP	Thai Social/Scientific, Academic and Research Network
AS7539	TWAREN-TW	National Center for High-performance Computing
AS2501	U-TOKYO	The University of Tokyo
AS4621	UNINET-AS-AP	Office of Infomation Technology Administration for Educational Development, Ministry of University Affairs, Thailand
AS28571	USAO-PAULO	

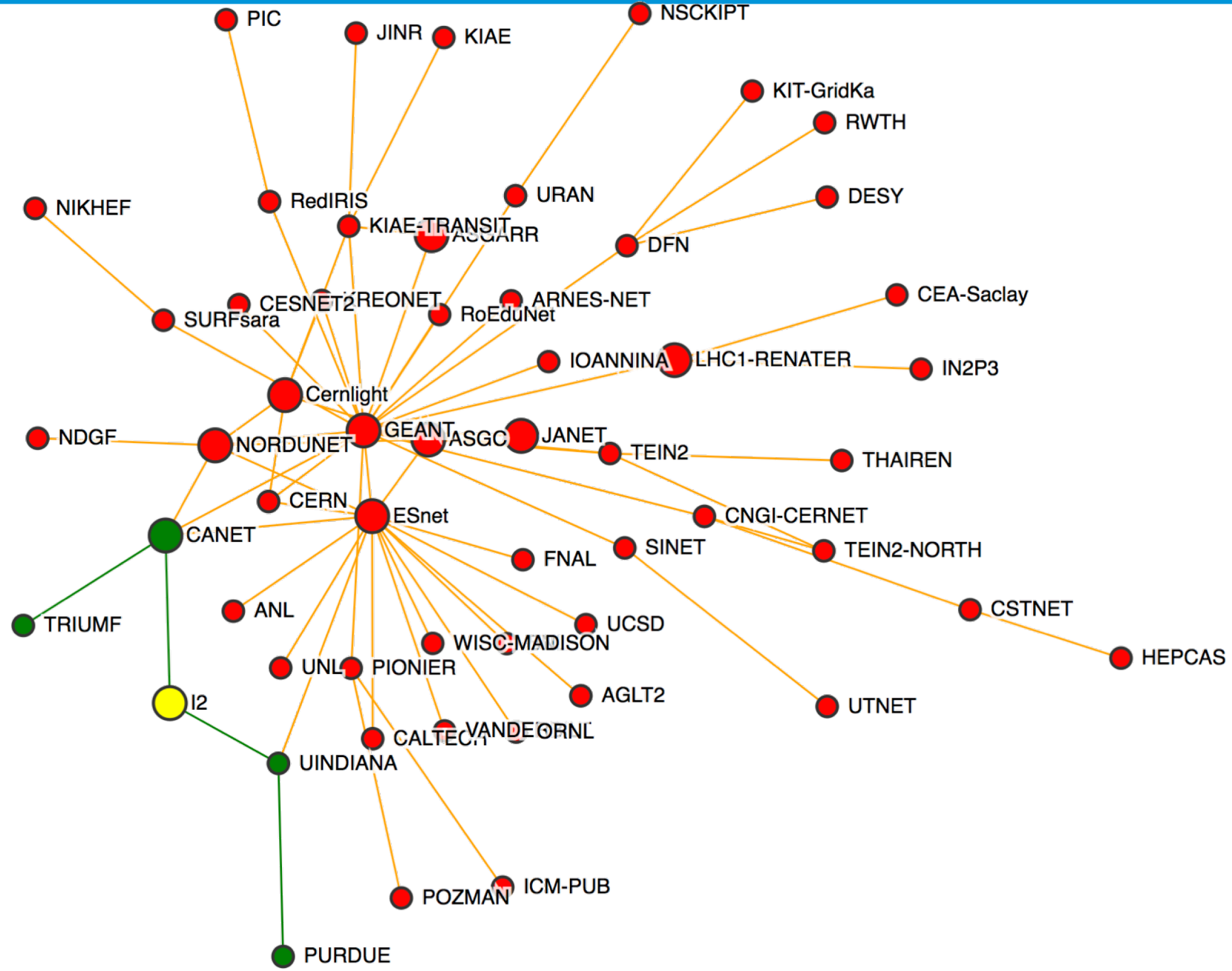


- Most prefixes are behind ASn, that Geant and Esnet have peering with with

Asn	Name	Descr
2907	SINET-AS	National Institute of Informatics
57484	KIAE-TRANSIT-AS	supercomputing division
17579	KREONET2-AS-KR	
24167	ASGCNet	Academia Sinica Grid Computing Center
23911	CNGI-BJIX-AS-AP	China Next Generation Internet Beijing IX
24490	TEIN2-SG-AP	TEIN2-SG-AP
1916	RNP	Rede Nacional de Ensino e Pesquisa







AS7575  
 AARNET  
 128.250.185.224/27  
 192.43.208.0/24  
 192.231.127.0/24

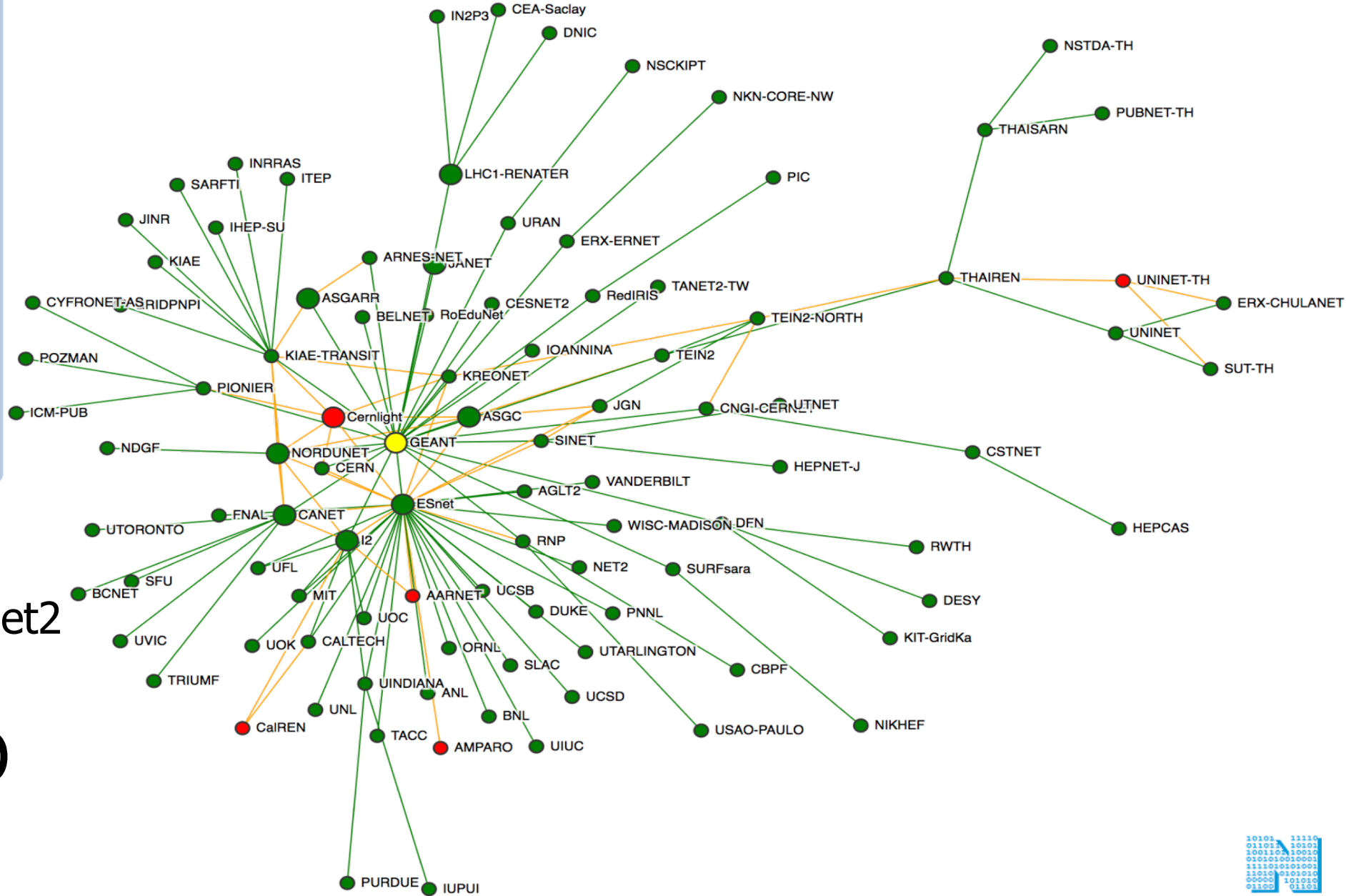
## Missing

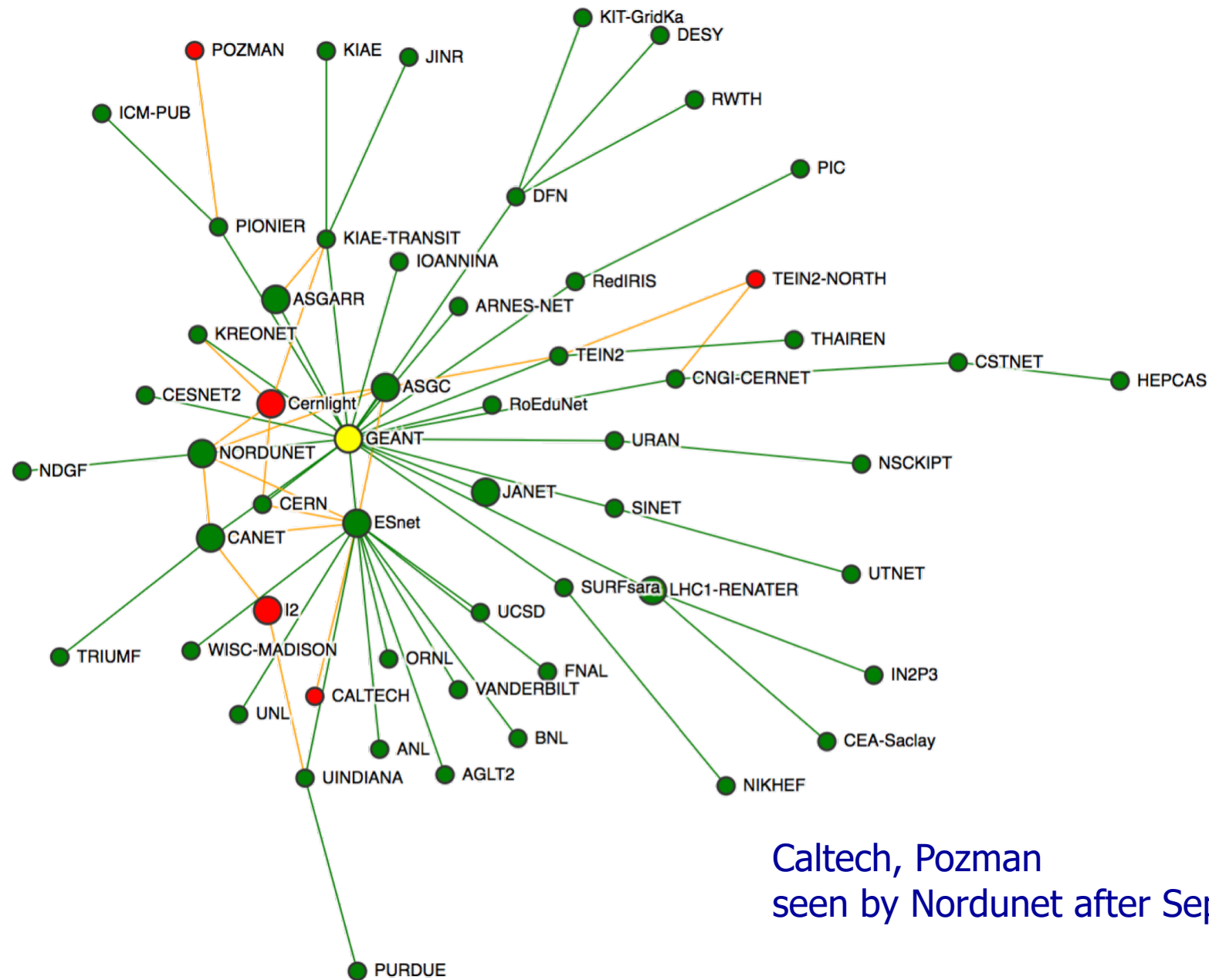
### AARNET

- via Internet2
- Esnet

### AMPARO

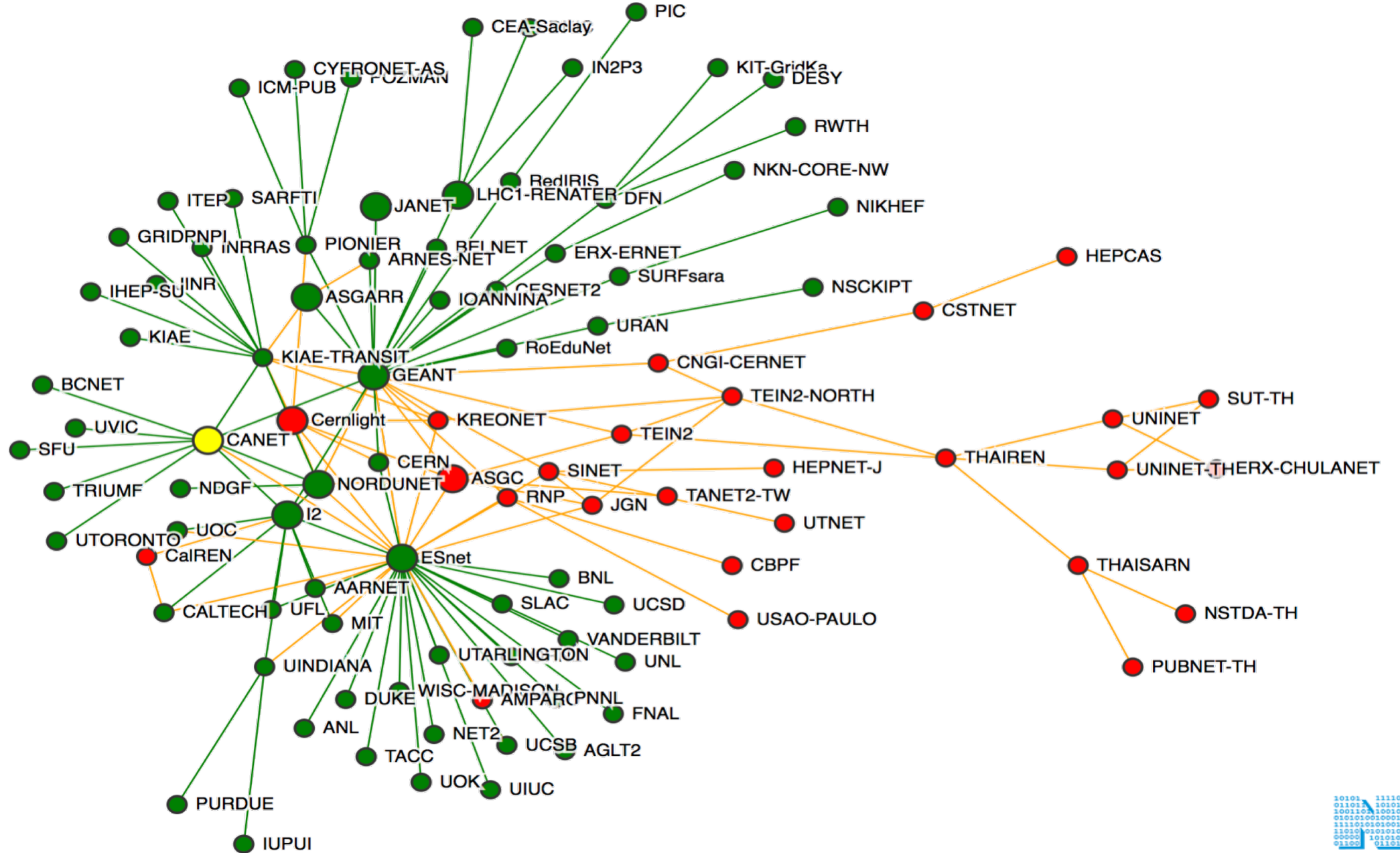
- via Esnet

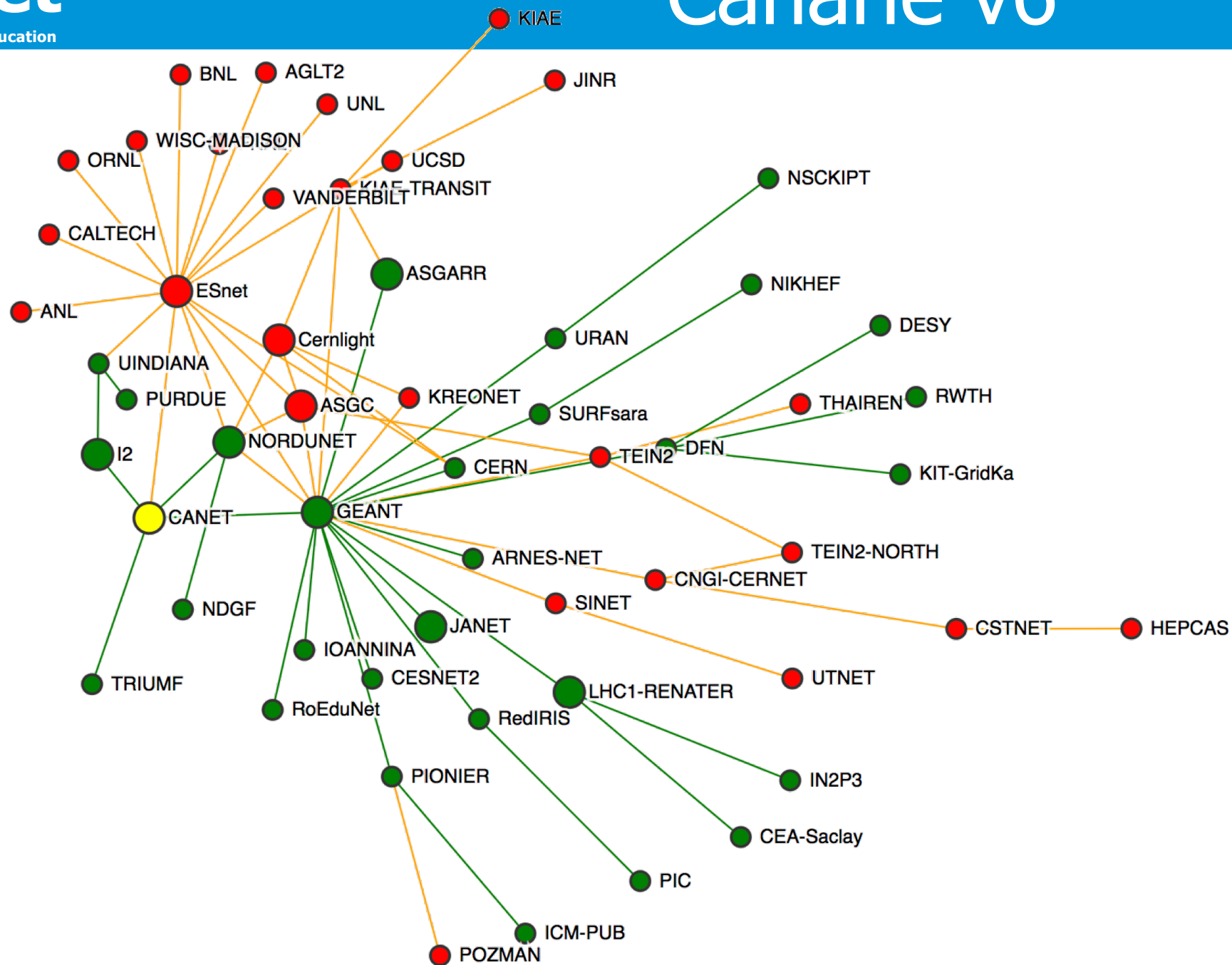


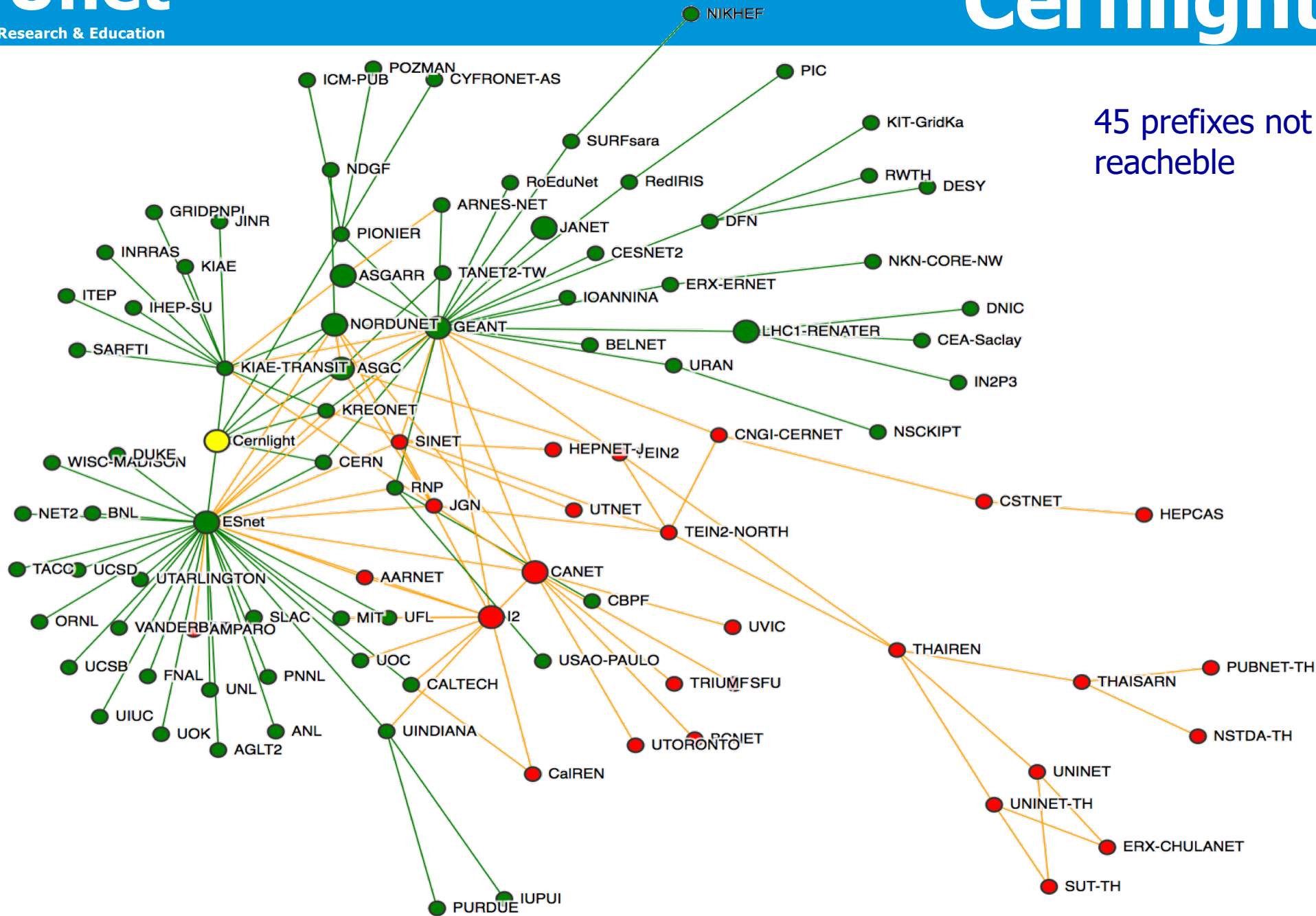


Caltech, Pozman  
seen by Nordunet after September





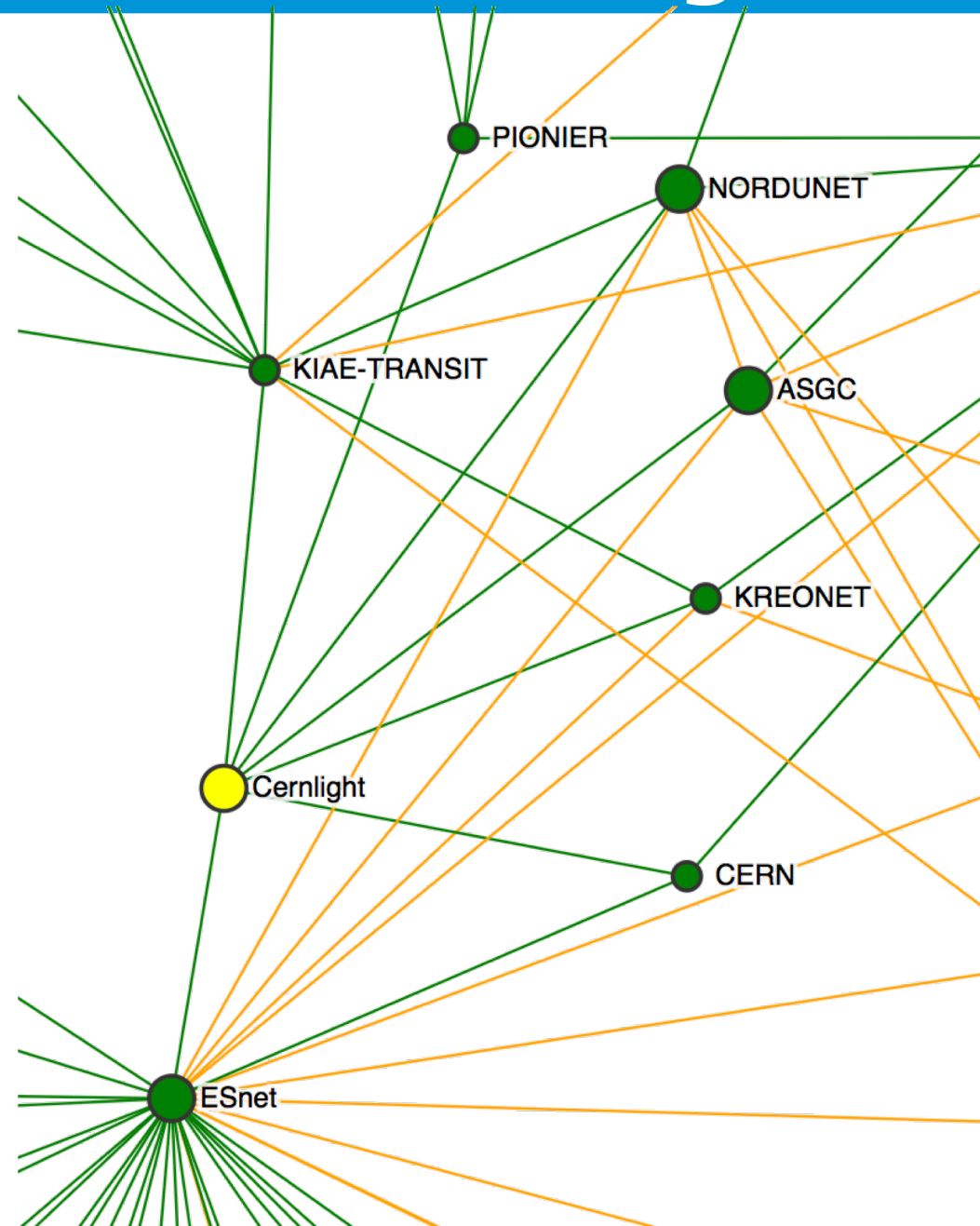




45 prefixes not reachable



- Pionier
- Nordunet
- KIAE
- ASGC
- KREONET
- Cern
- ESnet

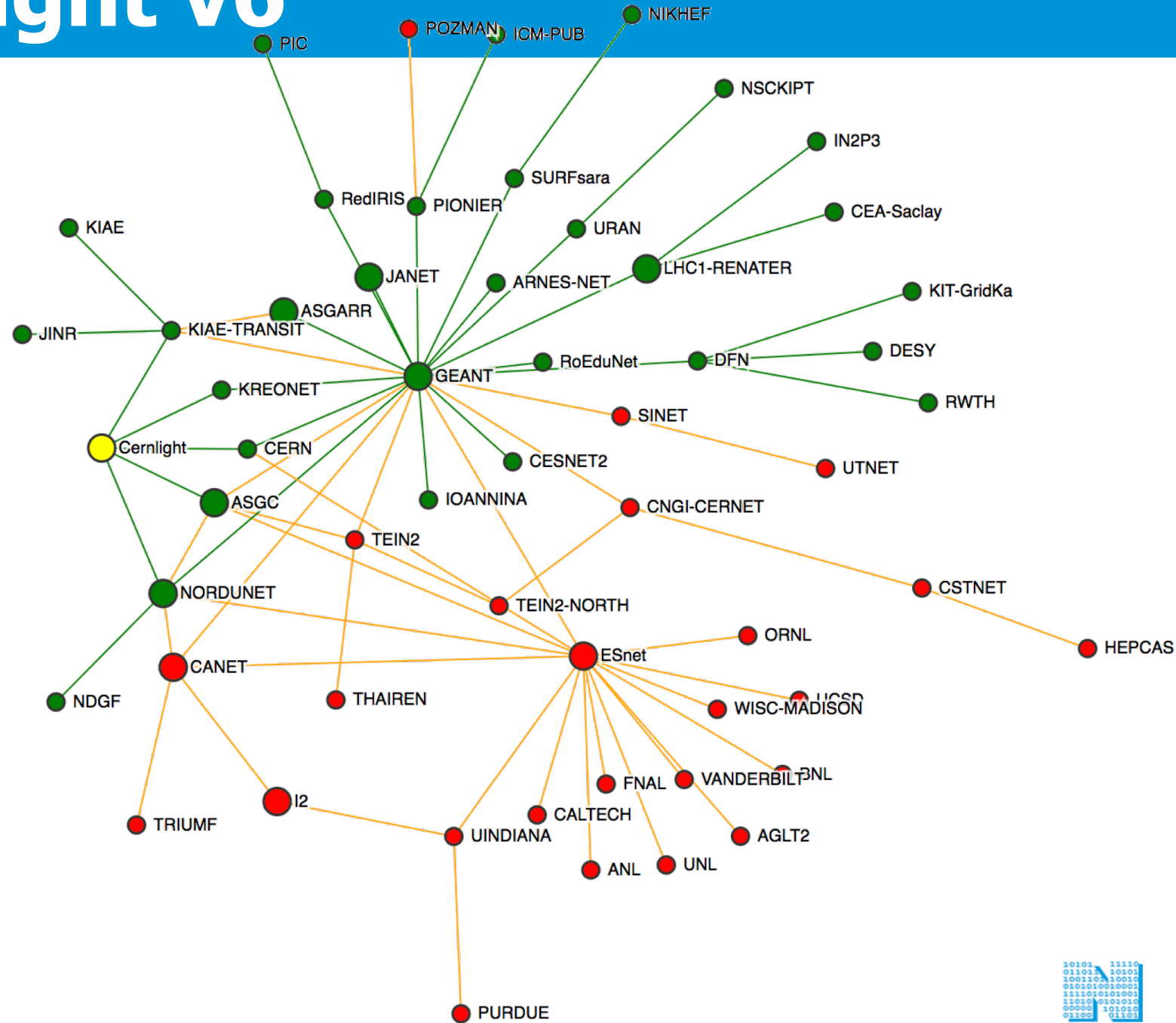


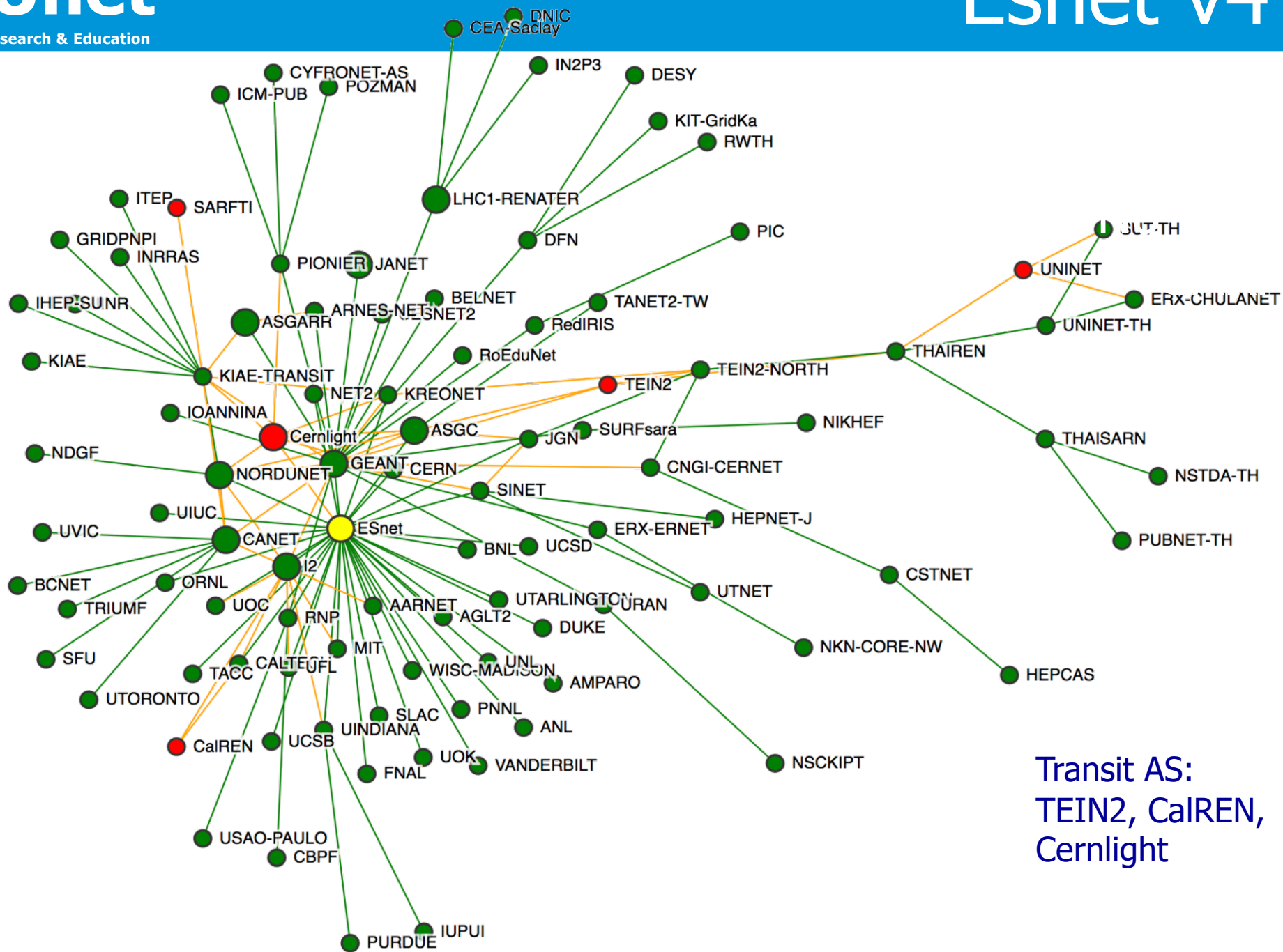


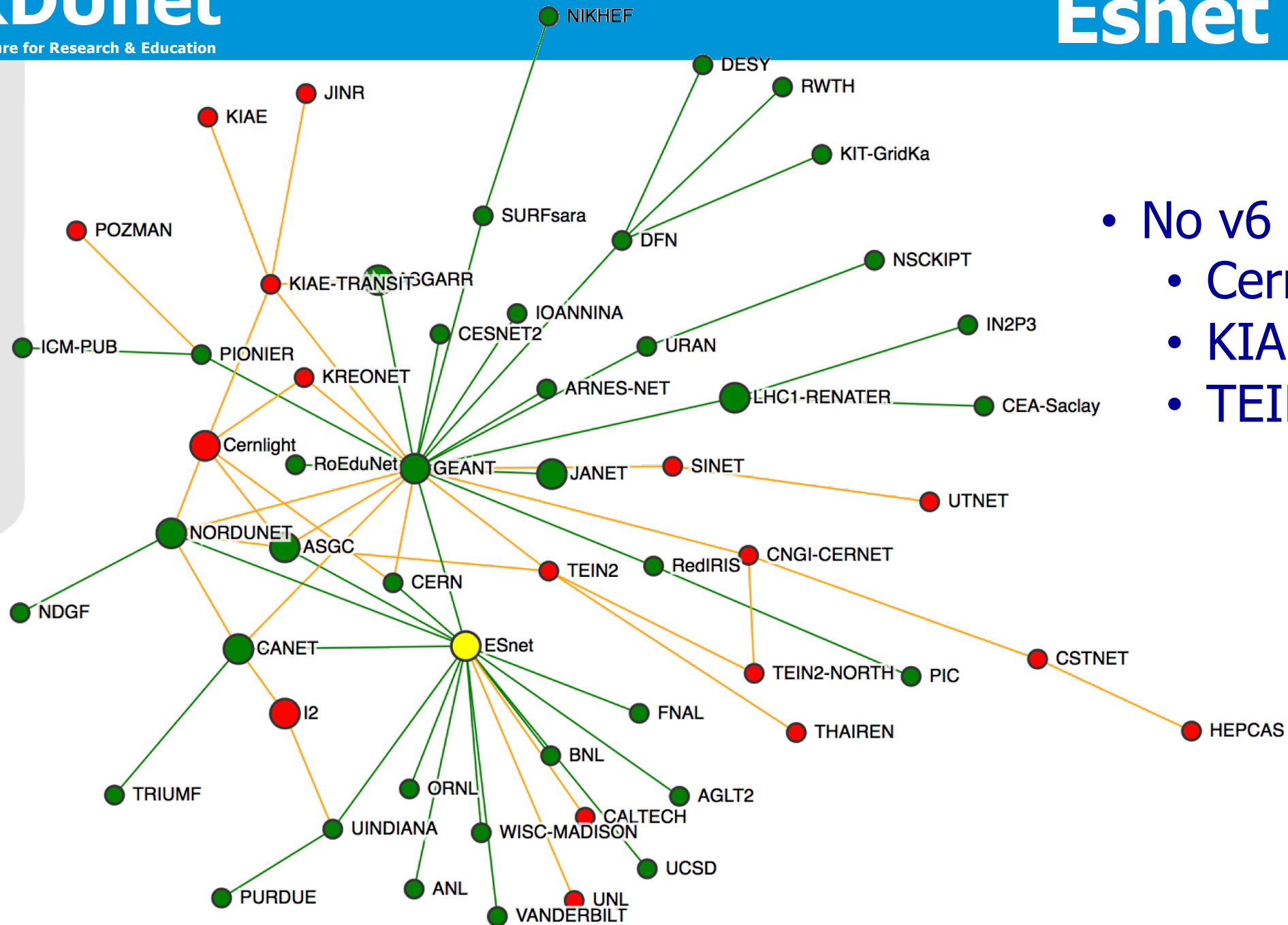
# NORDUnet Cernlight v6

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- ~~Pionier~~
- Nordunet
- KIAIE
- ASGC
- KREONET
- Cern
- ~~ESnet~~







- No v6
  - Cernlight
  - KIAE
  - TEIN

- No AS / NSP has connectivity to the complete LHCone
  - Store and forward get you connectivity
- V6 connectivity have potential for improvment
- [http://stats.nordu.net/pt/lhcone\\_v6.html](http://stats.nordu.net/pt/lhcone_v6.html)
- [http://stats.nordu.net/pt/lhcone\\_v4.html](http://stats.nordu.net/pt/lhcone_v4.html)

# NORDUnet

Nordic infrastructure for Research & Education

